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<b>UTILITY PATENT APPLICATION TRANSMITTAL</b>  (Only for new nonprovisional application under 37 CFR 1.53(b))	Attorney Docket No.	7991-023-999	Total Pages	49
	First Named Inventor or Application Identifier			
	Charles J. Arntzen			
	Express Mail Label No.	EE 773 773 481 US		

APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents	ADDRESS TO: Assistant Commissioner for Patents Box Patent Application Washington, DC 20231
<p>1. <input checked="" type="checkbox"/> Fee Transmittal form (Submit an original, and a duplicate for fee processing)</p> <p>2. <input checked="" type="checkbox"/> Specification [Total Pages 49 ] (Preferred arrangement set forth below) Descriptive title of the Invention Cross Reference to Related Application Statement Regarding Fed sponsored R&amp; D Reference to Microfiche Appendix Background of the Invention Brief Summary of the Invention Brief Description of the Drawings (if filed) Detailed Description Claim(s) Abstract of the Disclosure</p> <p>3. <input type="checkbox"/> Drawing(s) (35USC 113) [Total Sheets <input type="checkbox"/> ]</p> <p>4. Oath or Declaration [Total Pages <input type="checkbox"/> ] a. <input checked="" type="checkbox"/> Newly executed (original or copy) b. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with box 17 completed) [Note box 5 below] i. <input type="checkbox"/> Deletion of Inventor(s) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).</p> <p>5. <input type="checkbox"/> Incorporation By Reference (useable if Box 4b (is checked) The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.</p>	<p>6. <input type="checkbox"/> Microfiche Computer Program (Appendix)</p> <p>7. Nucleotide and/or Amino Acid Sequence Submission (if applicable , all necessary) a. <input checked="" type="checkbox"/> Computer Readable Copy b. <input checked="" type="checkbox"/> Paper Copy (identical to computer copy) c. <input checked="" type="checkbox"/> Statement verifying identify of above copies</p> <p><b>ACCOMPANYING APPLICATION PARTS</b></p> <p>8. <input checked="" type="checkbox"/> Assignment Papers (cover sheet &amp; document(s))</p> <p>9. <input type="checkbox"/> 37 CFR 3.73(b) Statement <input type="checkbox"/> Power of Attorney (When there is an assignee)</p> <p>10. <input type="checkbox"/> English Translation Document (if applicable)</p> <p>11. <input type="checkbox"/> Information Disclosure <input type="checkbox"/> Copies of IDS Statement (IDS)/PTO-1449 Citations</p> <p>12. <input checked="" type="checkbox"/> Preliminary Amendment</p> <p>13. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) (Should be specifically itemized)</p> <p>14. <input checked="" type="checkbox"/> Small Entity <input type="checkbox"/> Statement filed in prior Statement(s) application, Status still proper and desired</p> <p>15. <input type="checkbox"/> Certified Copy of Priority Document(s) (if foreign priority is claimed)</p> <p>16. <input type="checkbox"/> Other</p>

17. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information:

☐ Continuation ☐ Divisional ☐ Continuation -in-part (CIP) of prior application No: \_\_\_\_\_

**18. CORRESPONDENCE ADDRESS**

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ATTORNEY DOCKET NO. 7991-023-999

Date: August 5, 1998

Assistant Commissioner for Patents  
 Box Patent Application  
 Washington, D.C. 20231

Sir:

The following utility patent application is enclosed for filing:

Applicant(s): Charles J. Arntzen, Peter B. Kipp,  
 Ramesh Kumar and Gregory D. May

Executed on: C. Arntzen on August 4, 1998  
 P. Kipp on on August 4, 1998  
 R. Kumar on on July 31, 1998  
 G. May on August 4, 1998

Title of Invention: THE USE OF MIXED DUPLEX OLIGONUCLEOTIDES TO EFFECT LOCALIZED GENETIC  
 CHANGES IN PLANTS

Pages of Specification: 48 pages with 72 claims, plus Abstract Sheets of Drawings: None

Prior to calculation of the Application Fee please enter the Preliminary Amendment which is filed of even date.  
 An estimate of the application fee due is given below.

**PATENT APPLICATION FEE VALUE**

TYPE	NO. FILED	LESS	EXTRA	EXTRA RATE	FEE
Total Claims	18	-20	0	\$22.00 each	0.00
Independent	1	-3	0	\$82.00 each	0.00
Minimum Fee					790.00
Multiple Dependency Fee If Applicable (\$250.00)					0.00
Total					0.00
50% Reduction for Independent Inventor, Nonprofit Organization or Small Business Concern (a verified statement as to the applicant's status is attached)					- 395.00
Estimated Filing Fee					\$ 395.00

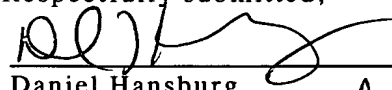
A small entity declaration accompanies this application.

Please charge the required fee to Kimeragen Deposit Account No. 50-0233. A copy of this sheet is enclosed.

This application contains a Sequence Listing in printed and computer readable forms. Applicants hereby state that the contents of the computer readable and printed forms of the Sequence Listing are identical.

Please address all correspondence to the undersigned at the above address.

Respectfully submitted,



(Reg No. 36,156)

Daniel Hansburg  
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Aug. 5, 1998

Enclosure